

## Subpart S—Trolley Wires and Trolley Feeder Wires

### § 77.1800 Cutout switches.

Trolley wires and trolley feeder wires shall be provided with cutout switches at intervals of not more than 2,000 feet and near the beginning of all branch lines.

### § 77.1801 Overcurrent protection.

Trolley wires and trolley feeder wires shall be provided with overcurrent protection.

#### § 77.1801-1 Devices for overcurrent protection.

Automatic circuit interrupting devices that will deenergize the affected circuit upon occurrence of a short circuit at any point in the system will meet the requirements of § 77.1801.

#### § 77.1802 Insulation of trolley wires, trolley feeder wires and bare signal wires; guarding of trolley wires and trolley feeder wires.

Trolley wires, trolley feeder wires, and bare signal wires shall be adequately guarded:

- (a) At all points where men are required to work or pass regularly under the wires; and
- (b) At man-trip stations.

The Secretary or his authorized representative shall specify other conditions where trolley wires and trolley feeder wires shall be adequately protected to prevent contact by any person, or shall require the use of improved methods to prevent such contact. Temporary guards shall be provided where trackmen and other persons are required to work in proximity to trolley wires and trolley feeder wires.

## Subpart T—Slope and Shaft Sinking

### § 77.1900 Slopes and shafts; approval of plans.

- (a) Each operator of a coal mine shall prepare and submit for approval by the Coal Mine Health and Safety District Manager for the district in which the mine is located, a plan providing for the safety of workmen in each slope or shaft that is commenced or extended

after June 30, 1971. The plan shall be consistent with prudent engineering design. The methods employed by the operator shall be selected to minimize the hazards to those employed in the initial or subsequent development of any such slope or shaft, and the plan shall include the following:

- (1) The name and location of the mine, and the Mine Safety and Health Administration mine identification number, if known;
- (2) The name and address of the mine operator;
- (3) A description of the construction work and methods to be used in the construction of the slope or shaft, and whether part or all of the work will be performed by a contractor and a description of that part of the work to be performed by a contractor;
- (4) The elevation, depth and dimensions of the slope or shaft;
- (5) The location and elevation of the coalbed;
- (6) The general characteristics of the strata through which the slope or shaft will be developed;
- (7) The type of equipment which the operator proposes to use when the work is to be performed by the operator. When work is to be performed by a contractor the operator shall, as soon as known to him, supplement the plan with a description of the type of equipment to be used by the contractor;
- (8) The system of ventilation to be used; and
- (9) Safeguards for the prevention of caving during excavation.

(Pub. L. No. 96-511, 94 Stat. 2812 (44 U.S.C. 3501 et seq.))

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#### § 77.1900-1 Compliance with approved slope and shaft sinking plans.

Upon approval by the Coal Mine Health and Safety District Manager of a slope or shaft sinking plan, the operator shall adopt and comply with such plan.

#### § 77.1901 Preshift and onshift inspections; reports.

- (a) Examinations of slope and shaft areas shall be made by a certified person for hazardous conditions, including